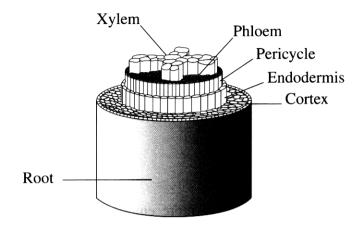
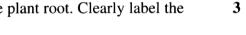
Marks

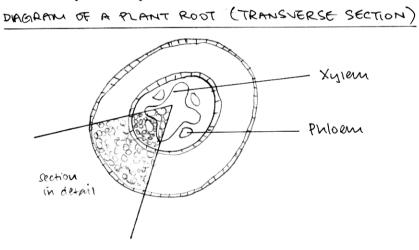
Question 17 (6 marks)

The diagram shows the arrangement of tissues in a young plant root.



From this diagram, draw a transverse section of the plant root. Clearly label the (a) location of xylem and phloem tissue.





Describe ONE current theory about the processes responsible for the movement (b) of materials through phloem tissue in plants.

3

One current theory is that of the source - to - sink: There are 3 main stages. 1) Movement from the source into the phloem, usually against a concentration gradient, thus active transport is needed. 2) movement in the phloem due to preserves from the source and night static pressure. 3) unloading from the phoem to the sink again reeding active transport, expanding countar energy. This movement to of waterials in the phoem is caused translocation.